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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/785,020	02/15/2001	Ajay Chandra V. Gummalla	1875.0470001	3008
7590 06/16/2004			EXAMINER	
STERNE, KESSLER, GOLDSTIEN & FOX, PLLC 1100 NEW YORK AVENUE, NW SUITE 600 WASHINGTON, DC 20005-3934			KADING, JOSHUA A	
			ART UNIT	PAPER NUMBER
			2661	X
	•		DATE MAIL ED: 06/16/200/	$_{\scriptscriptstyle 1}$

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/785,020	GUMMAŁLA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Joshua Kading	2661					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a relicion. s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
•=							
· -							
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-6 is/are pending in the application)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are wi	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4 and 6</u> is/are rejected.	Claim(s) <u>1,4 and 6</u> is/are rejected.						
7)⊠ Claim(s) <u>2,3 and 5</u> is/are objected to.	Claim(s) <u>2,3 and 5</u> is/are objected to.						
8) Claim(s) are subject to restriction	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>13 August 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for for a laim for for for for a laim for		§ 119(a)-(d) or (f).					
Certified copies of the priority docu Certified copies of the priority docu		Application No					
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application from the International E	•	Treceived III tills Mational Stage					
* See the attached detailed Office action for		received.					
	•						
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	48) Paper No((s)/Mail Date´. Informal Patent Application (PTO-152)					
 Information Disclosure Statement(s) (PTO-1449 or PTO/ Paper No(s)/Mail Date 6, 7. 	(SB/08) S) Notice of (·					

Application/Control Number: 09/785,020

Art Unit: 2661

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Page 2

DETAILED ACTION

Claim Objections

Claim 5 is objected to because of the following informalities: Claim 5, line 3 there are two occurrences of the word "the" consecutively ("the the smallest"). There only needs to be one, i.e. —the smallest—. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

There is no description in the specification where all the bit rates of the voice calls are the same as are the packetization intervals. Similarly, there is no description of all the admitted voice calls being placed in each queue.

The only description found relating to bit rates, packetization intervals, and placing admitted voice calls in queues is contradictory to claim 4. See the specification, page 6, lines 33-page 7, lines 1-12 and page 9, lines 9-10.

Application/Control Number: 09/785,020

Art Unit: 2661

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Page 3

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khaunte (U.S. Patent 6,546,017 B1) in view of Beshai (U.S. Patent 6,580,721 B1).

Regarding claim 1, Khaunte discloses "a method for timing the transmission of unsolicited grants (USGs) of bandwidth to transmit voice packets on a shared transmission medium comprising the steps of:

initializing a control terminal, to receive packets of voice calls having parameters including a bit rate... and a call identification (col. 2, lines 14-21 where the SID is the equivalent of the call identification and the actual bandwidth request is equivalent to the bit rate due to the fact that the bandwidth and bit rate are directly related to one another meaning that if one is effected the other must be effected);

creating a plurality of queues to define a corresponding plurality of phases at a submultiple of the packetization interval (col. 1, lines 63-col. 2, lines 1-3 where the different priority levels representing each queue is the equivalent of creating queues based on "phases");

admitting voice calls to the control terminal (col. 2, lines 14-15 where although the data requests being admitted are not disclosed to be specifically voice calls, Application/Control Number: 09/785,020

Art Unit: 2661

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Page 4

Khaunte does disclose the system can be used for voice calls as read in col. 9, lines 38-44);

distributing the voice calls among the queues in a predetermined order as the voice calls are admitted (col. 2, lines 12-26);

removing the voice calls from the queues as the voice calls are terminated (col. 2, lines 27-34 whereby having the queue empty means the calls were removed from the queue); and

periodically issuing at the phases defined by the queues USGs that include a call identification and a grant of bandwidth sufficient to transmit the packets (figure 3A, where the bandwidth request is seen as the horizontal parts as 305 and the associated grant (equivalent to the USG) is seen as the empty space as in 303)."

However, Khaunte lacks what Beshai discloses, the packets having "...a packetization interval...(figure 3A, element F16 where the packet length is the equivalent of the packetization interval in that each defines the limits of the packet)."

It would have been obvious to one with ordinary skill in the art to include the packetization interval with the rest of the method for the purpose of distinguishing between different types of data, i.e. voice versus data (Beshai, col. 8, line 67-col. 9, lines 1-16). The motivation is that each type of data must be processed differently and for this reason the data boundaries must be known.

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Regarding claim 6, Khaunte and Beshai disclose the method of claim 1.

However, Beshai lacks what Khaunte further discloses, "the control terminal is a cable

Art Unit: 2661

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modem termination system (CMTS) and the shared transmission medium is a cable transmission system (figure 1, element 104), the method additionally comprising the steps of receiving the USGs at cable modems connected to the cable transmission system and transmitting voice packets from the cable modems to the CMTS responsive to the received grants (col. 13, lines 13-16 where as in figure 3A it is seen that the CMTS administers USGs for the cable modems)." It would have been obvious to one with ordinary skill in the art at the time of invention to have the system consist of a CMTS and cable modems for the purpose of transmitting data (including voice) at high data rates (Khaunte, col. 9, table 1). The motivation is the higher data rates mean quicker data transfers and more capacity.

Allowable Subject Matter

Claims 2, 3, and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Kading whose telephone number is (703) 305-0342. The examiner can normally be reached on M-F: 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on (703) 305–4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Joshua Kading Examiner Art Unit 2661

10 June 9, 2004

KENMETH VANDERPUYE PRIMARY EXAMINER